



# **CA Water Plan Update 2018**

## **Envisioning Cal Water Sustainability**

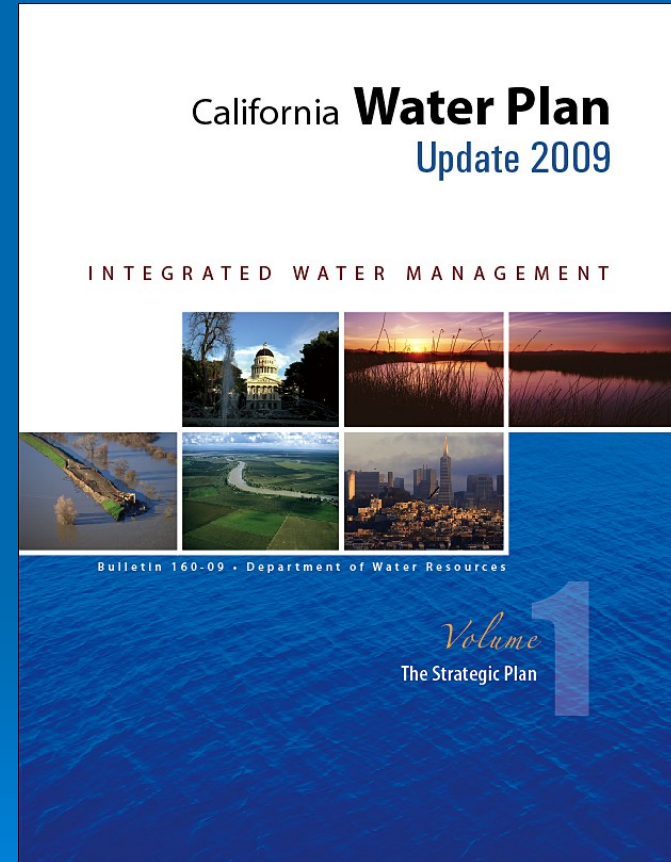
**Sustainable Water Resources  
Roundtable  
May 3, 2018**



# California Water Plan Update 2009

## Managing for Sustainability

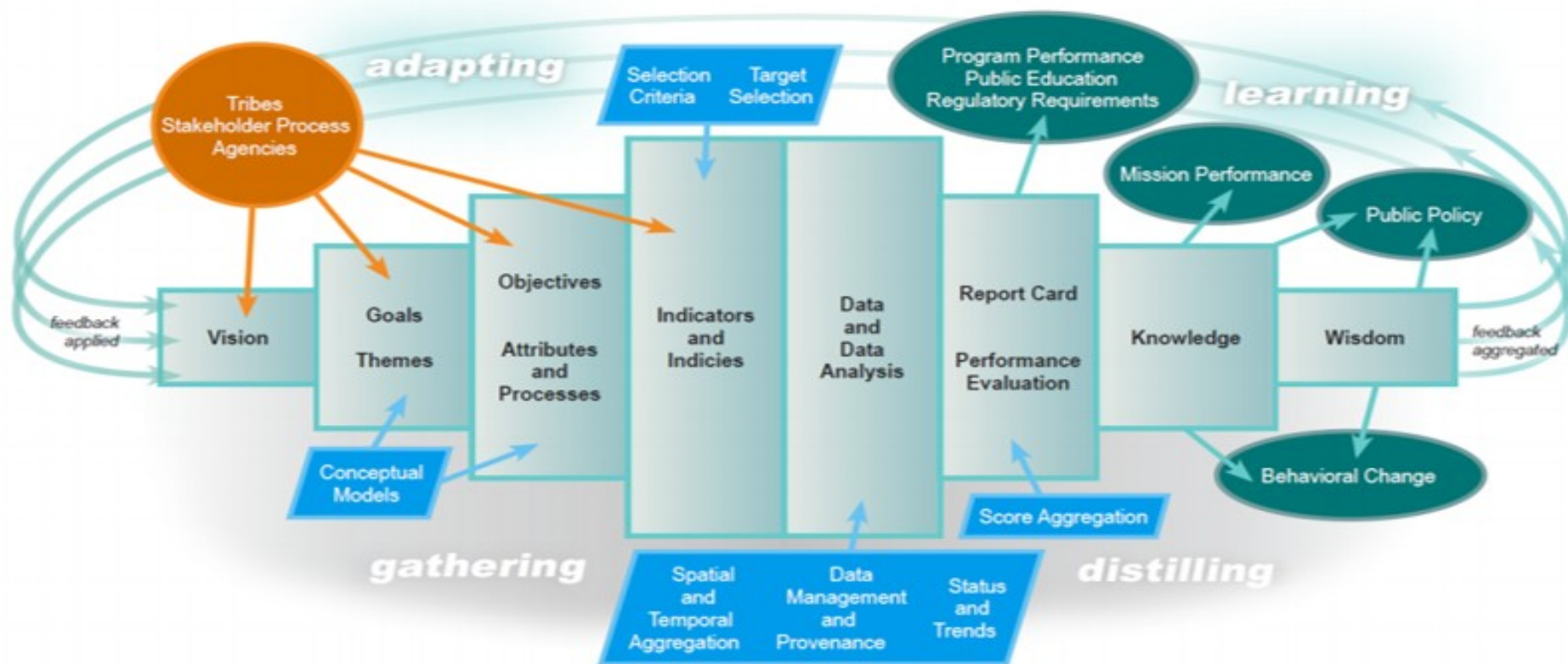
- Assign greater value to **sustainable outcomes** than water supply extraction
- **Future scenarios** to consider uncertainty, risk & resource sustainability in water & flood planning
- **Showcase SWRR**
  - Mission, history & activities
  - 4 Sustainability Principles
  - 14 Sustainability Indicators
- **California examples**
  - Strategic Growth Council
  - ACWA Sustainability Policy Principles









# Update 2013

## Sustainability Indicators Framework

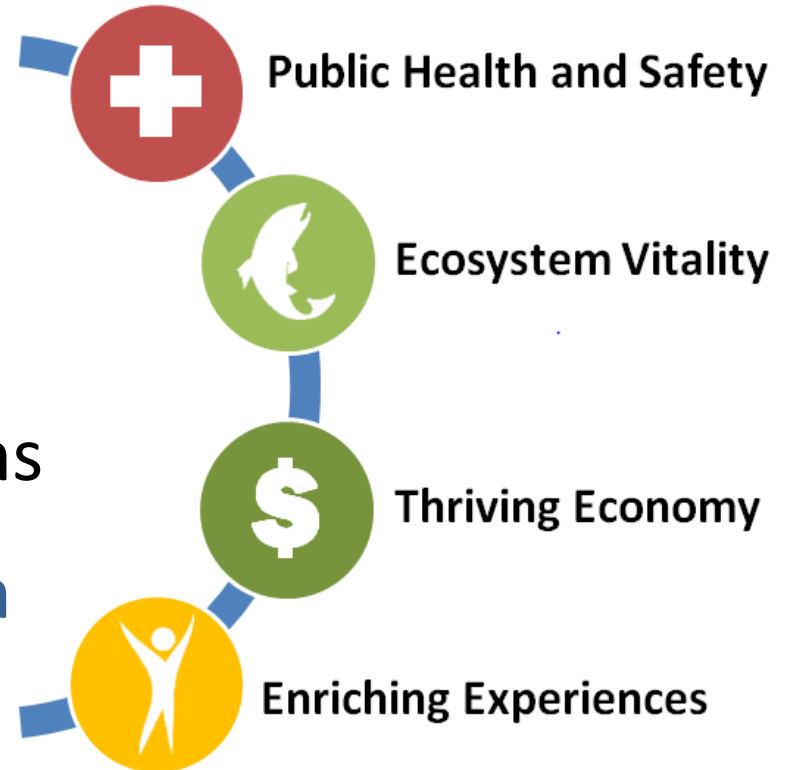


-  Elements in the Framework
-  Agency interaction, input, and feedback
-  Analytical inputs to the Framework (modeling, data, analysis)
-  End use of assessments from the Framework

# California Water Plan Update 2018

## Highlights

- ❖ Operational definition of sustainability
- ❖ CA Water Today  
-- challenges & drivers
- ❖ Actionable recommendations
- ❖ NEW -- Implementation Plan & Funding Options
- ❖ NEW -- Annual Reports to track progress & adapt



# California Water Plan Update 2018

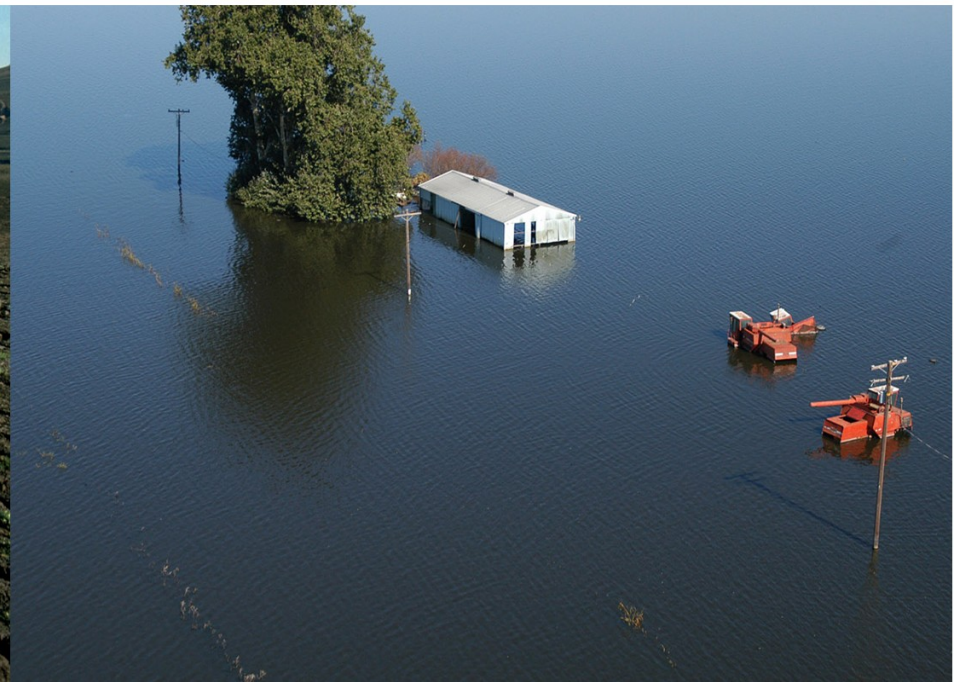
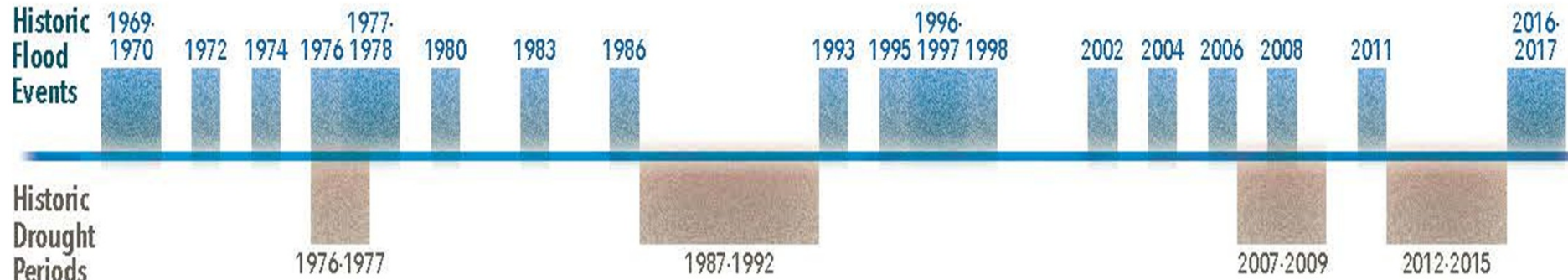
## Key Messages

- ❖ Water challenges are threatening Californians well-being
- ❖ Update 2018 has a shared vision for California's water future
- ❖ Bold action will overcome critical (& systemic) challenges
- ❖ Sufficient and stable funding needed for sustainability
- ❖ California's values - a common aspiration for water sustainability
- ❖ The Way Forward – everyone has a role to play



# California's Water Management

## A Tale of Two Extremes





# Water Challenges Threaten the People and Ecosystems of California

- ❖ Greater Drought Impacts - Unreliable Water Supplies
- ❖ Increasing Flood Risk
- ❖ Groundwater Depletion & Subsidence
- ❖ Degraded Water Quality
- ❖ Declining Environmental Conditions
- ❖ Aging Infrastructure
- ❖ Climate Change Impacts

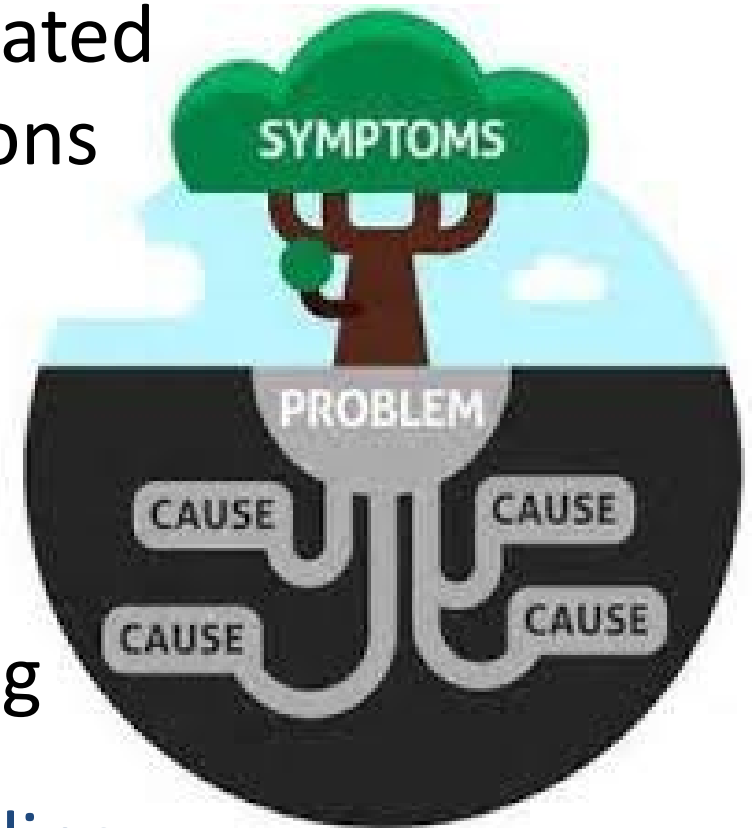


*Low water level at Folsom Lake (January 2014)*

# Systemic Challenges - Root Cause of Others

## Overcoming them Increases Return on Investment

- ❖ Fragmented and uncoordinated decisions, initiatives & actions
- ❖ Inconsistent, inflexible, & conflicting regulations
- ❖ Insufficient capacity for data-driven decision-making
- ❖ Insufficient & unstable funding





# Reactive Management is Not Sustainable

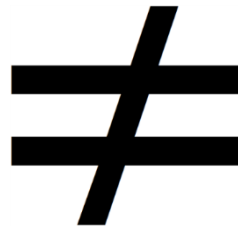
*Our historical focus on water management has been reactive and oriented to individual projects*

Repair + Ration + Regulate

...aging infrastructure

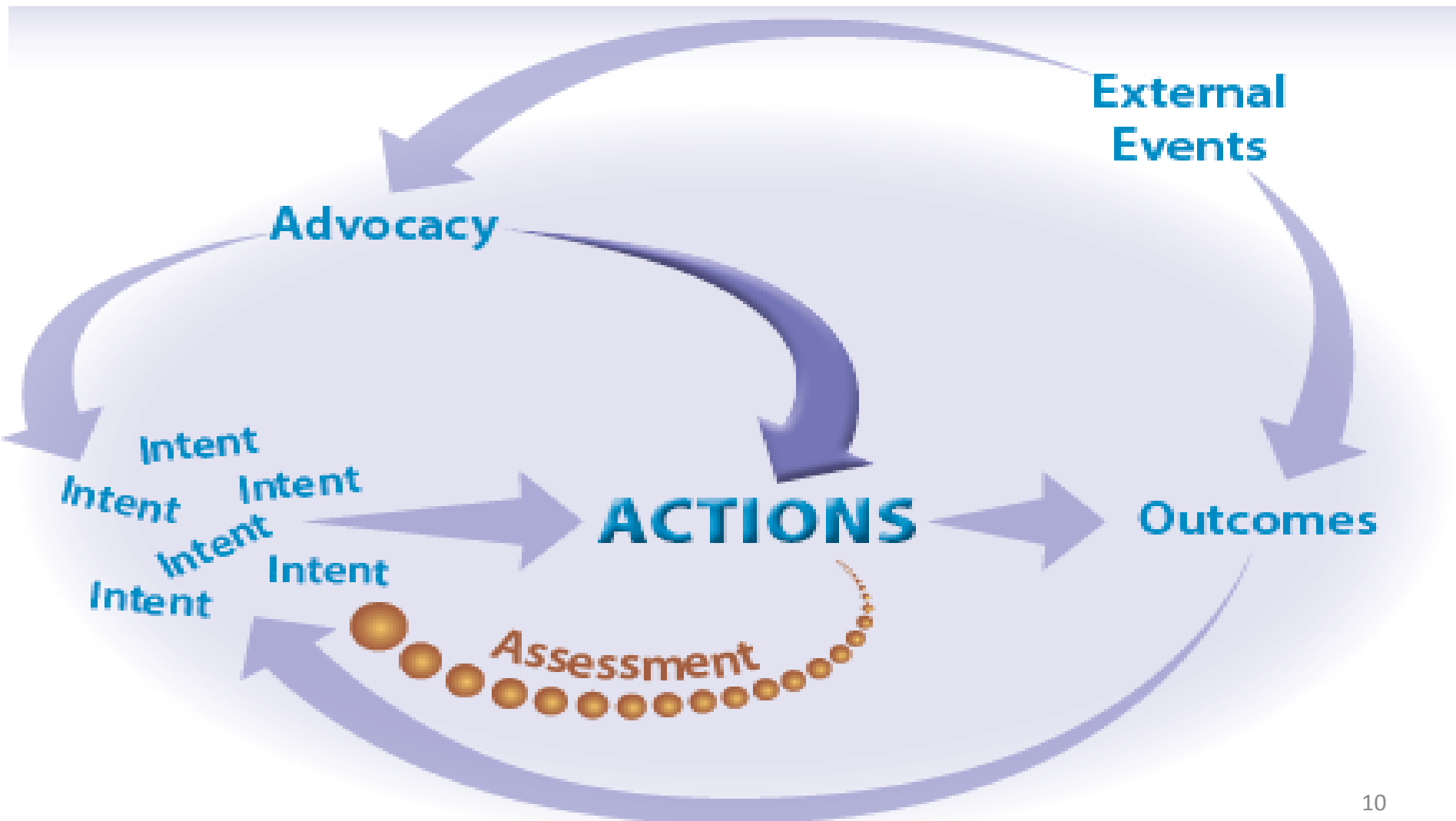
...in response to drought

...to comply with statutes &  
respond to droughts



Sustainability

# Today's Water Management System Focuses on Advocacies and Actions



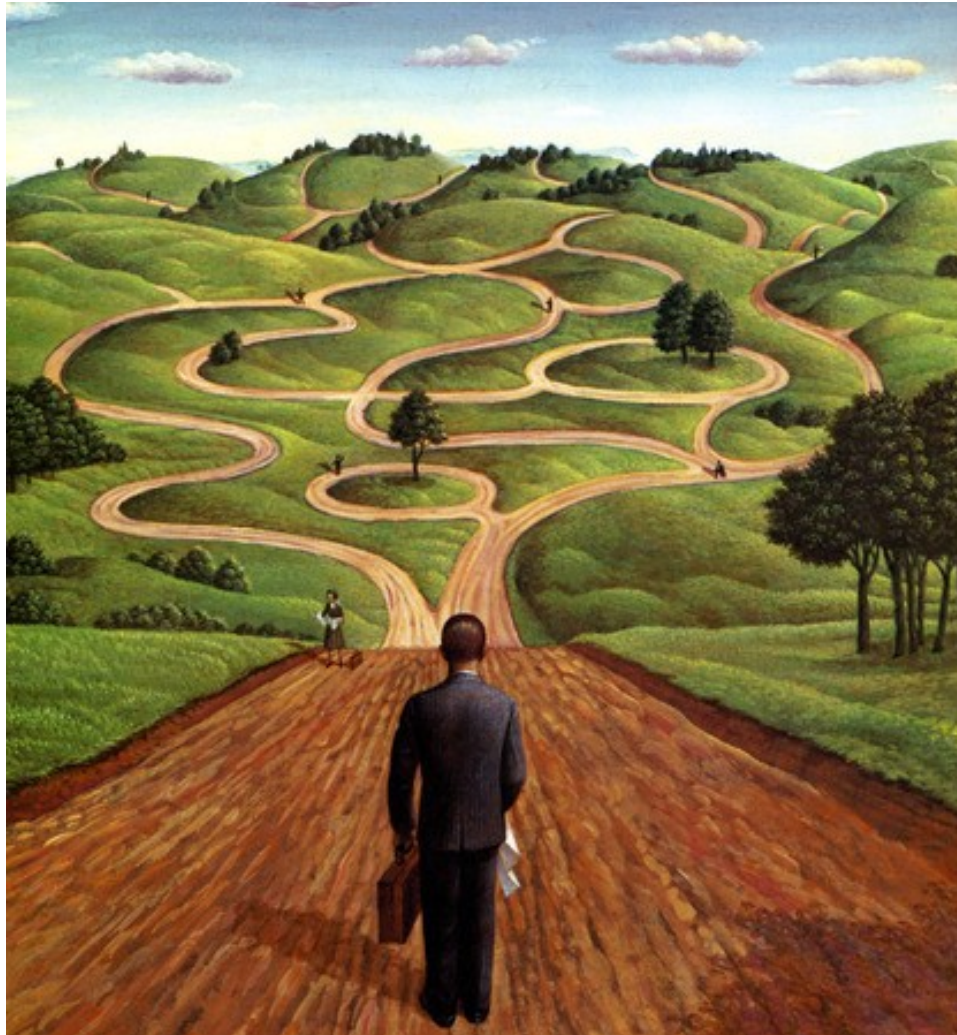
# Sustainability Requires :

- ❖ Taking a Long View
- ❖ Shared Intent & Outcomes
- ❖ Agency Alignment
- ❖ Balancing What Californians Value
- ❖ Time and Commitment





# Sustainability Requires a Long View

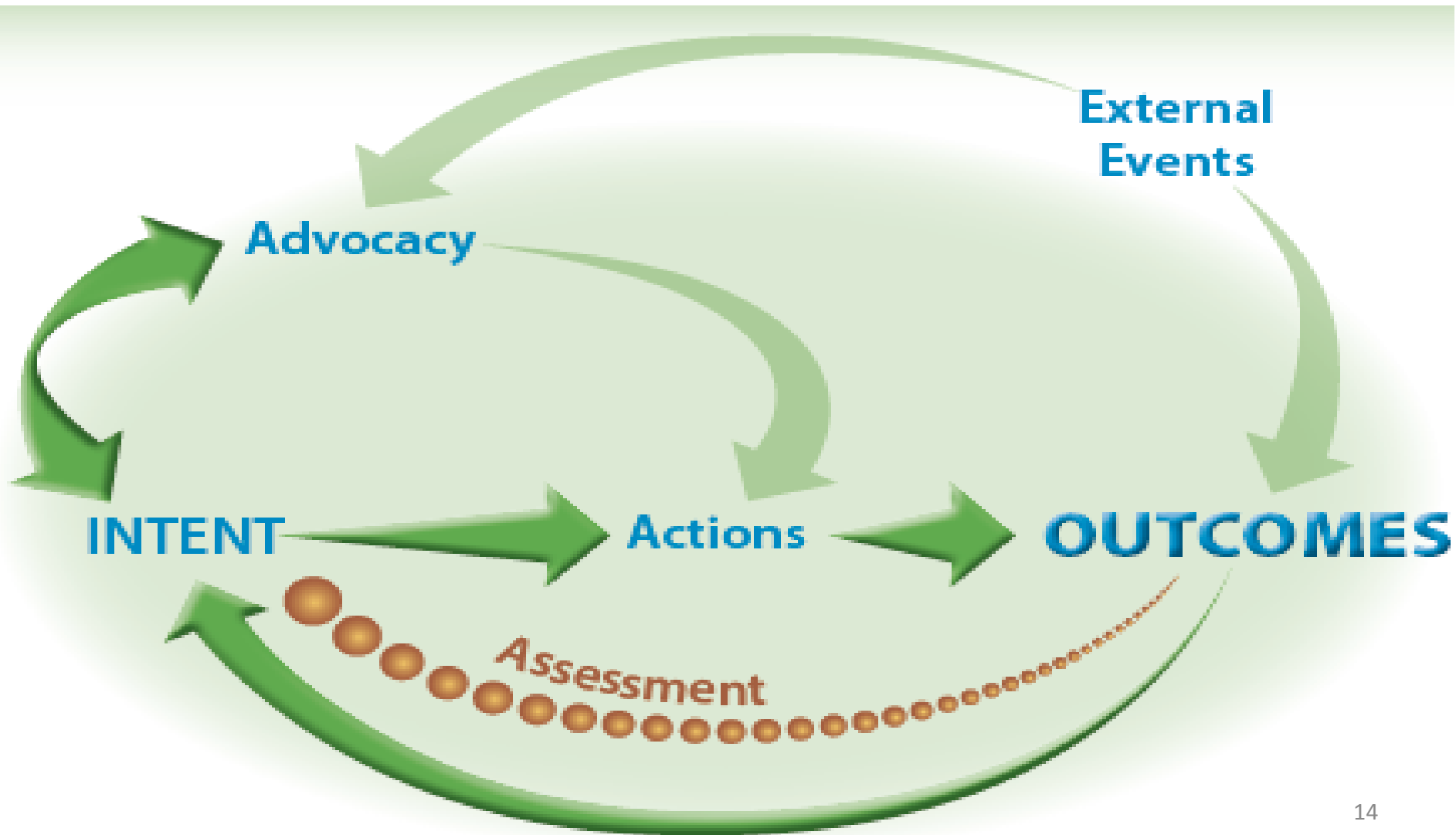


# Update 2018 Shared Vision



- ❖ All Californians are protected from health and safety threats and emergencies.
- ❖ California's economy is healthy and all Californians have opportunities for economic prosperity.
- ❖ Ecosystems in the state are thriving.
- ❖ All Californians have opportunities for enriching experiences.

# Sustainability Requires Shared Intent & Outcomes





# Update 2018 Goals to Overcome Challenges

1. New/Modernized Infrastructure & Restored Ecosystems
2. Improved Alignment of Decisions, Initiatives & Actions
3. Improved Regulatory Outcomes
4. Informed & Adaptive Decision-Making
5. Sufficient and Stable Funding



# Bold Action to Overcome Challenges



**Table ES-1. Update 2018 Recommended Actions Organized by Goals and Objectives**

Goals	Objectives	Recommended Actions
<b>Goal 1</b> New or Modernized Infrastructure & Restored Ecosystems	<b>Objective 1</b> Improve Infrastructure & Ecosystems	Green and Grey Infrastructure Assessment Green and Grey Infrastructure Investment Statewide Green Infrastructure and Working Landscapes Task Force Integrated Land Use and Water Management Program Integrated Flood Managed Aquifer Recharge
	<b>Objective 2</b> Improve Operations & Maintenance	Operations and Maintenance Assessment Operations and Maintenance Investment
<b>Goal 2</b> Improved Alignment of Decisions, Initiatives, and Actions	<b>Objective 3</b> Align efforts Around the Four Societal Values	Inventory and Evaluation of State Government Responsibilities State Agency Alignment and Investment Prioritization Plan Alignment Federal Advocacy Program
	<b>Objective 4</b> Effectively Manage Watersheds Over the Long-Term	Alignment at Appropriate Scales Enhanced State-Regional Engagement in California Water Plan Updates Enhanced Engagement in Integrated Regional Water Management Groups Disadvantaged Community Liaisons
	<b>Objective 5</b> Strengthen Relationships with California Native American Tribes	Add Tribes to Lead Agency Definition Tribal Involvement in Regional Planning Efforts Tribal-State Grant and Loan Contracting

# Bold Action to Overcome Challenges (Continued)

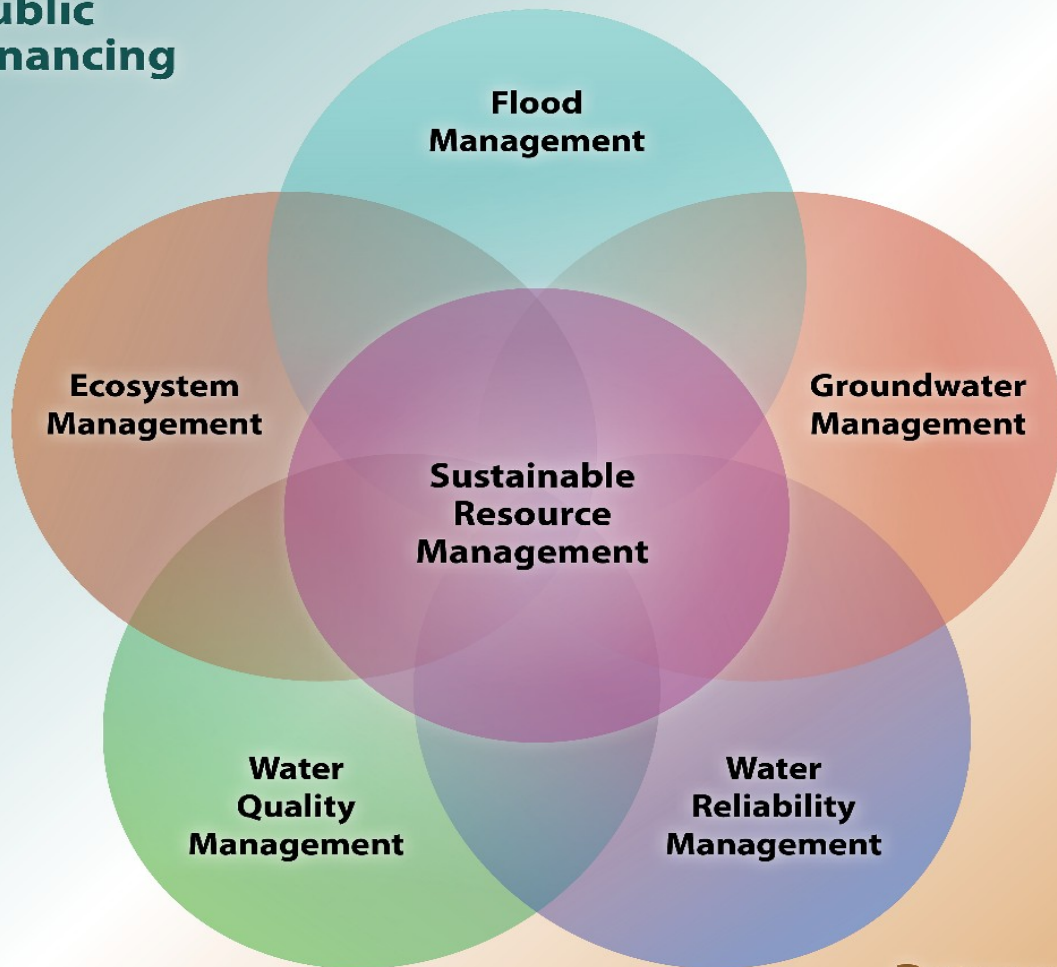


<b>Goal 3</b> Improved Regulatory Outcomes	<b>Objective 6</b> Resolve Common Regulatory Challenges	Programmatic Environmental Compliance Task Force Ecosystem Restoration Project Permitting Evaluating Alternative Compliance Pathways Delegation of Federal Permitting Cooperative Agreements
<b>Goal 4</b> Informed and Adaptive Decision-Making	<b>Objective 7</b> Build Capacity for Data-Driven Decision-Making	Comprehensive Water Resource Data Collection and Management Program Economic Benefits of Ecosystem Services Climate Science and Monitoring Program Sustainability Outlooks Regional Water Management Atlas State Water Resource Management Sector Plans Statewide Water Storage Reconnaissance Program
	<b>Objective 8</b> Improve Adaptive Management	California Water Plan Annual Reporting Reporting Requirements for State Financial Assistance
	<b>Objective 9</b> Increase Californians' Awareness of Water Resources	Water Resource Education
<b>Goal 5</b> Sufficient and Stable Funding	<b>Objective 10</b> Increase Consistency and Diversity of Funding Mechanisms	Removal of Funding Barriers Novel Funding Mechanisms Feasibility Study State Agency Participation in Enhanced Infrastructure Finance Districts



# Sustainability Requires **Alignment**

**Public  
Financing**



**Ratepayer  
Financing**

Multi-Sector  
Collaboration

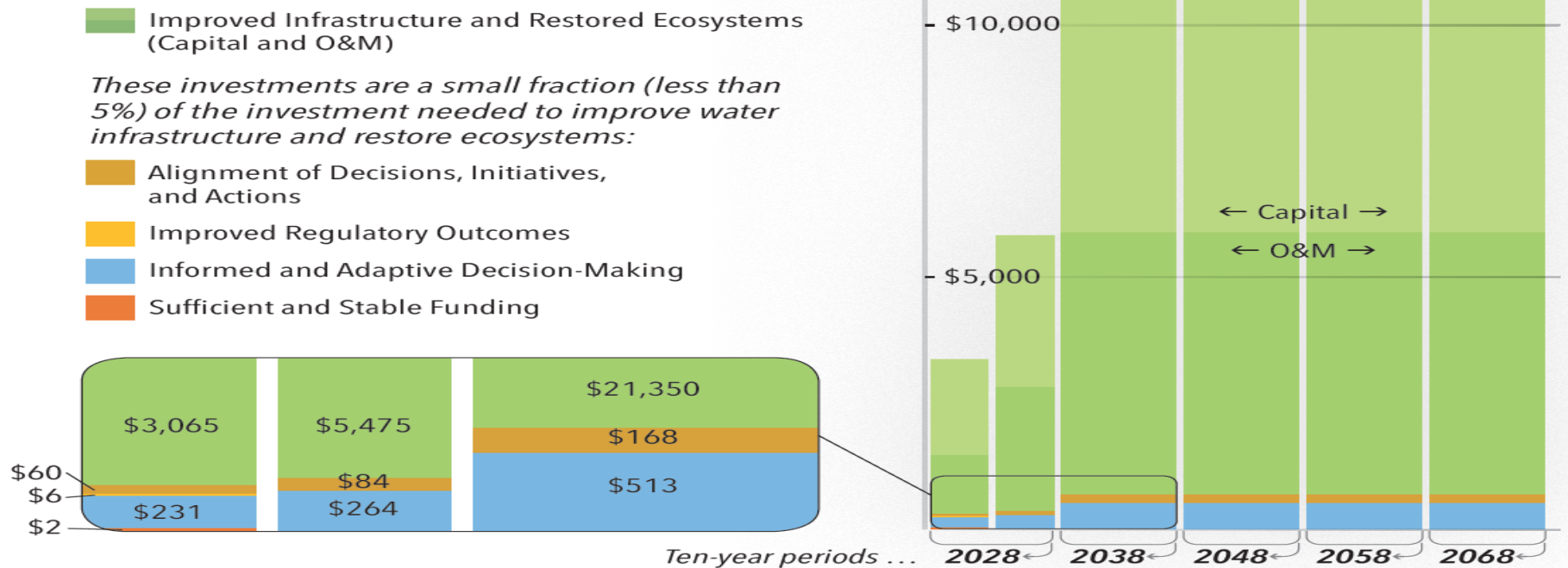
Multi-Discipline  
Planning

Multi-Benefit  
Projects

Multi-Fund  
Investments

# 50-Year State Water Investment Plan

- **\$80 Billion** – State Cost Share for Local/Regional Green & Grey Infrastructure Projects (Capital/O&M)
- **\$10 Billion** – State Projects (Capital/O&M)
- **\$3.4 Billion** – Actions to overcome systemic challenges (root causes)



# Sustainability Requires Balancing Values



Dynamically  
balancing four  
societal values  
with  
equitable  
distribution of  
benefits and impacts





# The Sustainability Outlook Demonstrates Return on Investment

**Sample Societal  
Value**



**Public  
Health &  
Safety**

**Sample Intended  
Outcome**

**An adequate water  
supply for domestic  
needs, sanitation, and  
fire suppression**

**Sample Sustainability  
Indicator**

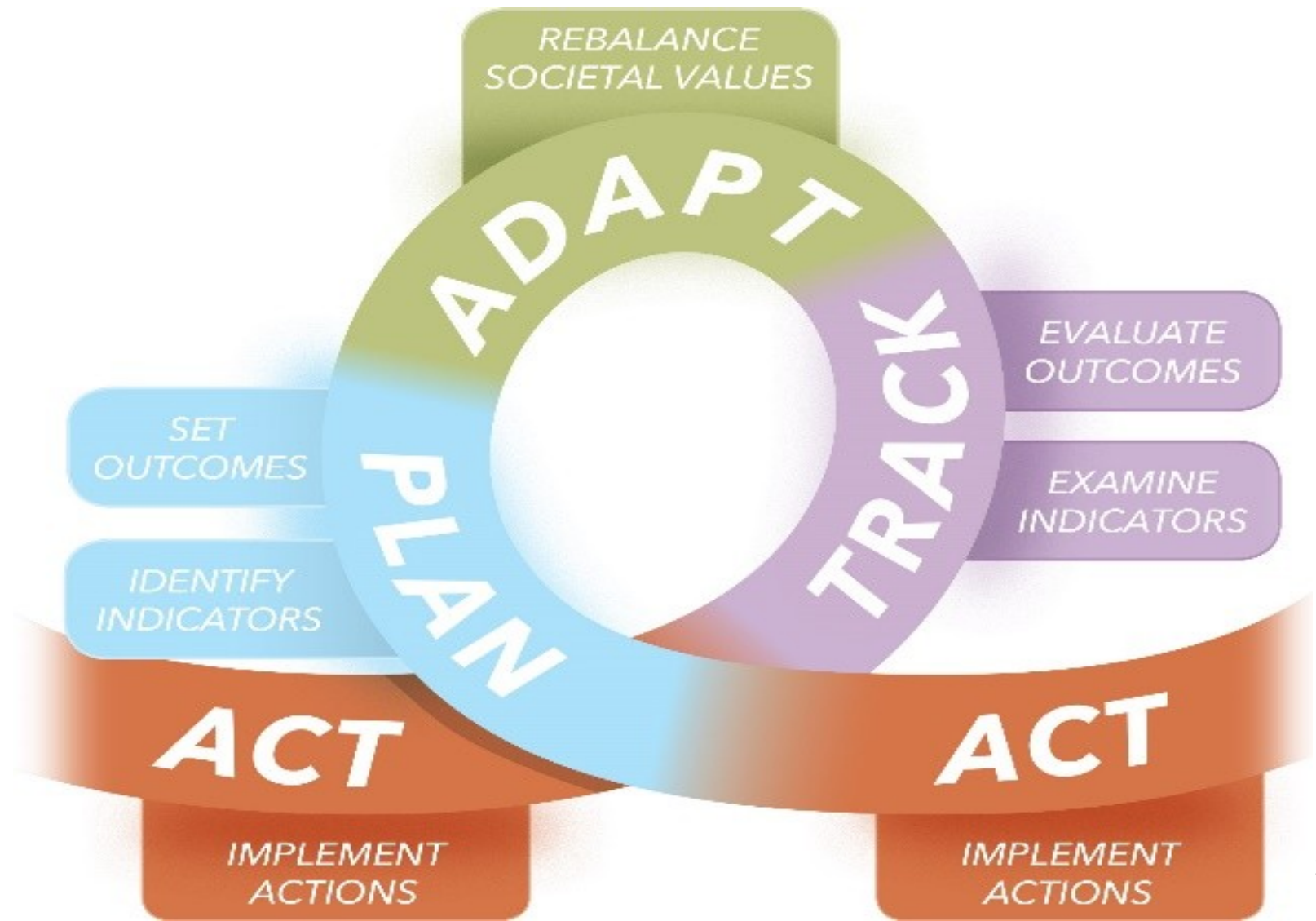
**Number of public water  
systems (population  
served) not in compliance  
with drinking water  
standards**

# Update 2018 Watershed-Scale Pilots

## Statewide is Aggregate of Regional Sustainability

- ❖ **Refining Sustainability Outlook for local application**
  - Proof of concept & scalability of indicators
  - Local/regional perspectives on impediments to sustainability
  - Place-based solutions for governance, regulations & funding
- ❖ **Initiated pilot projects in partnership with:**
  - California Forward
  - Pacific Institute
  - Water Foundation
  - Sonoma County Water Agency
  - Santa Ana Watershed Project Authority

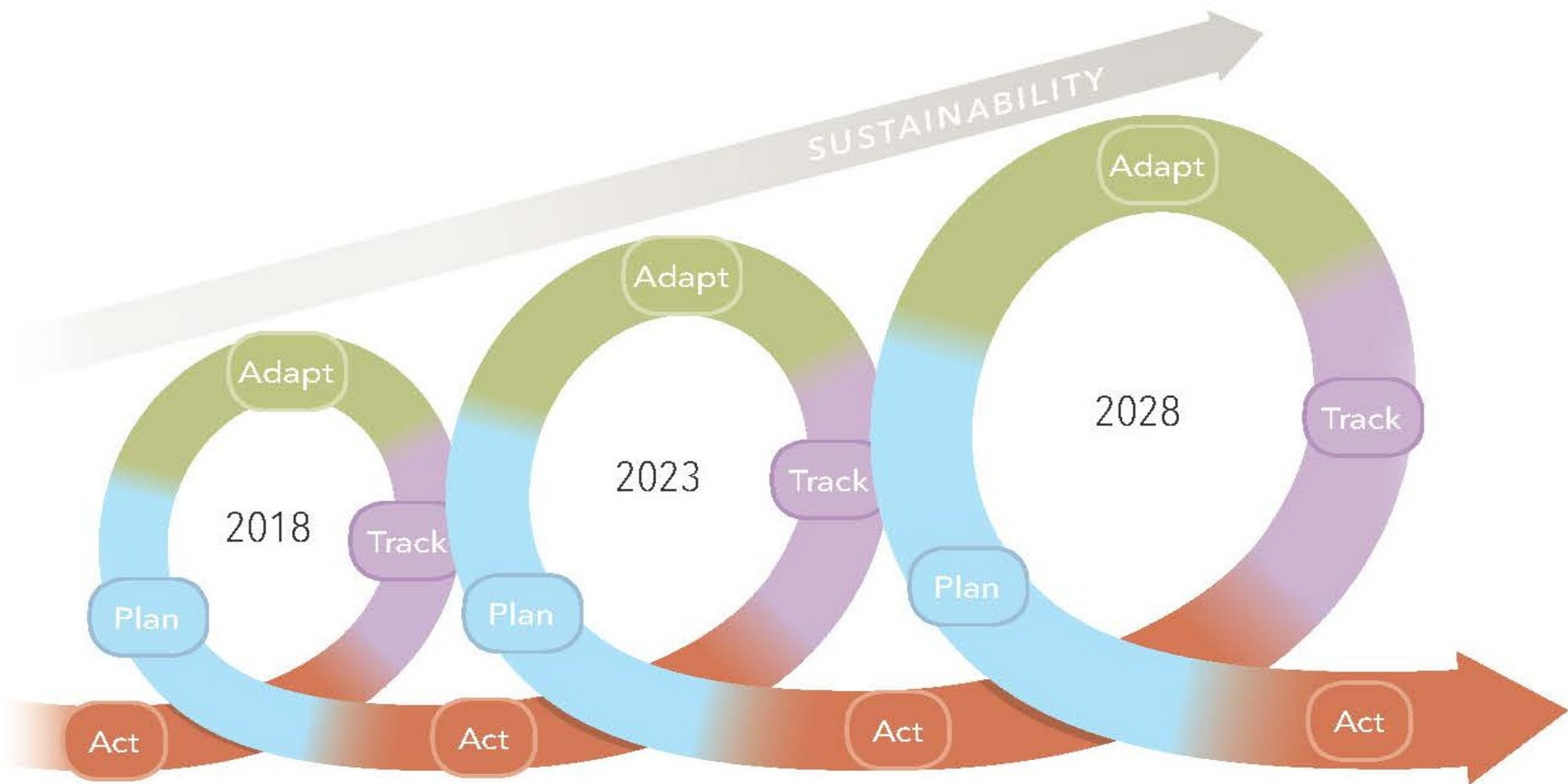
# Informed and Adaptive Management Brings Vision to Fruition





# Sustainability Requires Time & Commitment

## It is a Journey, not a Destination



Update 2018 Sets the Stage for a More Effective Long-Term Adaptation

# Ways to Access Water Plan Information

## ➤ Visit the Water Plan Web Portal



### California Water Plan

## The California Water Plan

The California Water Plan (Water Plan) is the State government's strategic plan for managing and developing water resources statewide for current and future generations. It provides a collaborative planning framework for elected officials, agencies, tribes, water and resource managers, businesses, academia, stakeholders, and the public to develop findings and recommendations and make informed decisions for California's water future. To learn more about the Water Plan, visit our [About the Water Plan](#) page.

### Water Plan eNews Weekly Newsletter

The Department of Water Resources (DWR) and the California Water Plan publish a weekly electronic newsletter to keep you informed about Water Plan news and other announcements. We encourage individuals to subscribe to receive updates on current and future Water Plan activities and to keep up-to-date on water resources news. We welcome comments, suggestions, and any other news tips that may be of interest to water planners. Please email us.

See this week's edition: October 19, 2016.

- ➔ eNews Archives
- ➔ Subscribe to Water Plan eNews



### Water Plan News - Announcements

#### California Water Plan Update 2018 - 2016 Plenary Meeting

The date has been set for the first of the annual plenary meetings for Water Plan Update 2018. It will be Tuesday, Oct. 25, in Sacramento. As the agenda, and other meeting details, are developed, they will be posted on the Meeting Materials page. The development of Update 2018 will include input from a Policy Advisory Committee (Policy AC) made up of representatives from a broad range of public and private sector interests. If you have any questions, please contact us at [cwpc@water.ca.gov](mailto:cwpc@water.ca.gov). (09/30/2016)

- ➔ California Water Plan Update 2018
- ➔ Meeting Materials
- ➔ RSVP

#### California Water Plan Update 2018 - Tribal AC Orientation Webinar

DWR has scheduled an Orientation Webinar for the Water Plan Update 2018 Tribal Advisory Committee (Tribal AC). Please register to participate. If you have any questions, please contact us at [cwpc@water.ca.gov](mailto:cwpc@water.ca.gov). (10/14/2016)

- ➔ Webinar Registration
- ➔ Tribal AC Webpage
- ➔ Meeting Materials

### California Water Plan Home

- ➔ California Water Plan Updates
  - ➔ Update 2018
  - ➔ Update 2013
  - ➔ Previous Reports
- ➔ About the Water Plan

### COLLABORATION

- ➔ Calendar
- ➔ Meeting Materials
- ➔ Participation
- ➔ Public Comments

### RESOURCES

- ➔ Resource Management Strategies
- ➔ Water Portfolios
- ➔ Water Footprint
- ➔ Sustainability
- ➔ Groundwater
- ➔ Scenarios
- ➔ GIS Data
- ➔ Water Quality
- ➔ More...

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**WATER PLAN eNEWS**

Wednesday Update Year-End 2015

This weekly electronic newsletter is designed to keep you current on California Water Plan news. We welcome comments, suggestions and any news tips that may be of interest to water planners.

### California Water – A Tale of Extremes

2015 was another reminder that California's climate and hydrology pose many challenges for water managers. The state has endured four years of drought – one of the worst in recent history – and now, the forecast of a strong El Niño, brings the possibility of serious flooding. Ongoing and future changes to the climate are driving rising sea levels, altered precipitation patterns, and reduced Sierra Nevada snow pack – California's largest surface water reservoir.

### Managing Water – Working Together to Shape Our Future

The water challenges facing our communities, watersheds, and economies compelled the State of California to embark on a comprehensive, multi-agency, and practical approach to water resources management. The process, outlined in the Governor's [Water Action Plan](#), encourages implementation of integrated, multi-benefit programs and projects.

#### Governor's Water Action Plan

- Ensure reliable water supplies for all Californians.
- Build capacity for regional sustainability.
- Manage floodwaters while protecting ecosystems.
- Take action to reduce residual risk.
- Set planning priorities and investments for a sustainable future.
- Protect our communities through State, federal, tribal, and local cooperation and commitment.

Since 2014, the action plan has focused State water leaders on common goals and actions, and it has leveraged general obligation bond revenues with existing agency budgets and other funding sources. But, full implementation of the plan, and related actions to improve water sustainability, will require investments above the current baseline budgets of State, federal, tribal, and local governments. Multiple, and more stable, funding sources will be needed to improve flood protection, provide reliable and clean water supplies, restore and enhance ecosystems, and provide for enriching experiences – that is, to achieve sustainable water management. Details are available in DWR's partnership paper, [Managing California Water Through Federal, State, and Local Cooperation](#).

### Ever-greening California Water Plan for Update 2018

To be relevant, California Water Plan Update 2018 needs to report on Water Action Plan implementation and its related State initiatives such as the [Sustainable Groundwater Management Act](#), [State drought response](#), [Proposition 1 Water Bond](#), [future IRMM strategies](#), and [flood investment strategy](#). In addition to being State government's long-term strategic water plan, Update 2018 needs to – for the first time – identify specific outcomes and metrics to track performance, prioritize near-term State actions and investments, recommend financing methods having more stable revenues, and inform water deliberations and decisions as they unfold.

In 2016, DWR will engage State, federal, tribal and local agencies and stakeholders in the development of the plan. Opportunities to get involved will be announced in the [California Water Plan eNews](#).

## ➤ Subscribe to Water Plan eNews



# Questions & Comments



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